



NASA
environmental
and
energy
conference
08

EMS Best Practices



Sustaining Mission Success

Artist's conceptual rendering

EMS Best Practices

- **Aspects and Impacts**

- Defining and prioritizing impacts and benefits in terms that are important to program managers (e.g., cost/delay to mission) is more effective
- Utilizing an "EMS Steering Committee" comprised of members of different organizations helps to foster communication and accurately evaluate aspects/impacts

- **Objectives, Targets, and Programs**

- A concise environmental management plan with clear objectives and targets and responsibilities is more effective

EMS Best Practices

- **Legal Requirements:**
 - Use a variety of sources, in addition to RRAC Principle Center, to assess legal requirements and to disseminate the information to appropriate organizations
 - Contractor provides quarterly regulatory updates that may impact Center
 - A good documented procedure to access, review, identify and document legal and other requirements more effective

EMS Best Practices

- **Structure & Responsibility**

- Using mechanisms that are already in place helps ensure integration of environmental into programs, projects and processes
- Project Management Branch created a liaison position within their organization to streamline the interface with Safety, Health, and Environmental
- Program and project offices have integrated preparation of Preliminary Environmental Survey (PES) into the overall planning process

EMS Best Practices

- **Documentation / Records:**
 - Comprehensive documentation of environmental requirements and procedures improves performance
 - Easily accessible document / records management system improves communication and access to environmental regulatory information and requirements, e.g., Sharepoint, web site
 - Documented procedures for records management improves environmental recordkeeping

EMS Best Practices

- **Communication:**

- Use of a variety of communication tools improves internal and external communications, e.g., Center newsletter, Heads-up, emails, websites
- Environmental Quick Reference Guide provides quick, easily accessible source for environmental information and points-of-contact
- Public awareness and outreach benefits with strong support of the PAO
- EMS SharePoint Website is an excellent program communication tool
- Environmental Communication procedure provides clear process for dissemination of information and communication to internal and external parties

EMS Best Practices

- **Operational Controls**
 - Environmental Desk Guides focus environmental requirements based on job specific duties
 - Fire Department reviews bills of lading prior to allowing hazardous materials onsite
 - RIMS excellent system for tracking of regulatory requirements and chemical inventory
 - Documented procedures for operational controls improves performance

EMS Best Practices

- **Monitoring, audits & corrective action**
 - Improved metrics and analysis helps environmental program personnel to better allocate scarce resources
 - Annual internal and external EMS audits provide a thorough review of the EMS and its processes
 - Dedicated EMS Audit Manager improves results
 - Comprehensive, clearly delineated corrective action system improves results

EMS Best Practices

- **Management review:**
 - Semi-annual reviews resulted in senior management being well aware of the environmental issues
 - Management review is a powerful tool to obtain support and resources for improvement of environmental performance
 - Senior management support has been key to the success of the EMS

EMS Best Practices

- **Additional Input**